QC ABSTRACT

NAME OF WORK: Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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9	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.74	2	2
10	RCC(M20)	Compressive Strength(7days and 28days)	4 set /31-100 cum	37.09	8	8
11	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
12	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
13	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
14	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
15	TACK COAT	Rate of spread	One Test		1	1
16	Thermoplastic Compound	Colour	One Test		1	1
		Softening Point	One Test		1	1
		Luminance Factor	One Test		1	1
		Cracking Resistance	One Test		1	1
		Skid Resistance	One Test		1	1
		Yellow Index (For White Thermoplastic Plant)	One Test		1	1
		Drying Time	One Test		1	1
		Binder Content	One Test		1	1
		Glass Beads Content	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-05-07-05** **Date: 30-04-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri R Ranganath, No 37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK D/EPMT-15/W O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-04-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-05-07-05** **Date: 26-05-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	28-04-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2022-05-07-05 Date: 29-04-22
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-04-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-04-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	318	318	2.1	97.9	90-100
3	20 mm	7441	7759	51.7	48.3	30-70
4	10 mm	5152	12911	86.1	13.9	10-35
5	4.75 mm	1711	14622	97.5	2.5	0-5
6	Pan	378	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-05-07-05** **Date: 29-04-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.42	–
6	Water Absorption(%)	0.25	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-05-07-05** **Date: 29-04-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-04-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-05-07-05** **Date: 29-04-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2022-05-07-05
		Date: 29-04-22
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	27-04-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	145	230	23.0	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	165	395	39.5	60.5	30-70	55-90	75-100	90-100
5	600 micron	187	582	58.2	41.8	15-34	35-59	60-79	80-100
6	300 micron	175	757	75.7	24.3	5-20	8-30	12-40	15-50
7	150 micron	155	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2022-05-07-05
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-22
Sample Type /Size	:	Precast Cover Slab (100 mm thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	07/05/2022

Date: 11-05-22

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2022-05-07-05 **Date: 11-05-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-22
Sample Type /Size	:	Precast Cover Slab (250 mm thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	07/05/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.42	250.56	2.156	17767	300.5	16.9	15.7	19.7
2	Cover Slab-2	150.65	250.86	2.186	17822	320.5	18.0	16.7	20.9
3	Cover Slab-3	150.86	250.42	2.196	17871	360.5	20.2	18.8	23.4

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	CP-2022-05-07-05 **Date: 11-05-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-22
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	07/05/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/05/2022

Lab ID	:	CP-2022-05-07-05
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	07/05/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	30/04/2022	07/05/2022	149.99 X 151.96 X 149.11	22793	8.503	287.0	12.6	12.4
2	PCC	M15	30/04/2022	07/05/2022	151.95 X 150.53 X 149.58	22873	8.487	278.4	12.2	
3	PCC	M15	30/04/2022	07/05/2022	150.32 X 150.36 X 151.99	22603	8.660	278.7	12.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/05/2022

Lab ID	:	CP-2022-05-07-05
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri R Ranganath, No 37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	30/04/2022	28/05/2022	151.67 X 149.38 X 149.33	22657	8.454	400.0	17.7	17.6
2	PCC	M15	30/04/2022	28/05/2022	151.87 X 151.82 X 151.61	23056	8.239	414.7	18.0	
3	PCC	M15	30/04/2022	28/05/2022	149.54 X 150.71 X 151.17	22537	8.475	386.2	17.1	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/05/2022

Lab ID	:	CP-2022-05-07-05
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/05/2022	12/05/2022	150.96 X 150.36 X 151.97	22698	8.370	411.6	18.1	18.3
2	Drain Concrete	M20	05/05/2022	12/05/2022	149.59 X 149.44 X 151.53	22354	8.338	407.4	18.2	
3	Drain Concrete	M20	05/05/2022	12/05/2022	151.84 X 151.25 X 150.20	22967	8.619	427.5	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-05-07-05
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/05/2022

Date: 12/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	05/05/2022	12/05/2022	150.41 X 149.93 X 151.22	22552	8.973	417.1	18.5	18.3
2	Drain Concrete	M20	05/05/2022	12/05/2022	151.51 X 149.58 X 150.58	22663	8.605	413.8	18.3	
3	Drain Concrete	M20	05/05/2022	12/05/2022	149.40 X 149.45 X 151.50	22328	9.060	402.7	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-05-07-05** **Date: 02/06/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/05/2022	02/06/2022	151.05 X 149.51 X 149.11	22584	8.522	523.8	23.2	23.1
2	Drain Concrete	M20	05/05/2022	02/06/2022	149.51 X 151.33 X 151.13	22625	8.352	505.6	22.3	
3	Drain Concrete	M20	05/05/2022	02/06/2022	149.90 X 149.33 X 149.35	22384	8.690	533.1	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/05/2022

Lab ID	:	CP-2022-05-07-05
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	05/05/2022	12/05/2022	151.94 X 150.45 X 150.27	22859	8.914	428.0	18.7	18.6
2	Drain Concrete	M20	05/05/2022	12/05/2022	150.58 X 150.02 X 151.23	22589	9.014	427.2	18.9	
3	Drain Concrete	M20	05/05/2022	12/05/2022	150.16 X 149.86 X 151.81	22503	8.337	405.7	18.0	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/05/2022

Lab ID	:	CP-2022-05-07-05
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/05/2022	12/05/2022	151.42 X 151.25 X 149.79	22903	8.284	418.6	18.3	18.4
2	Drain Concrete	M20	05/05/2022	12/05/2022	151.61 X 150.33 X 150.45	22792	8.953	429.3	18.8	
3	Drain Concrete	M20	05/05/2022	12/05/2022	150.84 X 149.30 X 150.57	22521	8.518	407.0	18.1	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/06/2022

Lab ID	:	CP-2022-05-07-05
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer's Reference	:	BBMP/EE/YNK D/EPMT-15/W O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	05/05/2022	02/06/2022	150.81 X 150.18 X 150.47	22647	8.821	539.8	23.8	23.2
2	Drain Concrete	M20	05/05/2022	02/06/2022	150.22 X 150.45 X 151.97	22601	8.425	501.9	22.2	
3	Drain Concrete	M20	05/05/2022	02/06/2022	150.31 X 149.48 X 151.16	22468	8.718	529.8	23.6	

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2022-05-07-05** **Date: 13-05-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	11-05-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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Quality Manager

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Certificate No.: TC-5548

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-05-07-05** **Date: 13-05-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	11-05-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

* The results obtained are satisfactory as per standard requirements.

Note:-

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2022-05-07-05 Date: 19-05-22
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-22
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of Test	:	17-05-22
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	250	250	5.00	95.00	90-100
19	350	600	12.00	88.00	71-95
13.2	450	1050	21.00	79.00	56-80
4.75	1750	2800	56.00	44.00	38-54
2.36	400	3200	64.00	36.00	28-42
0.3	1350	4550	91.00	9.00	7-21
0.075	250	4800	96.00	4.00	2-8
PAN	200	5000	0.00	0	0

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Certificate No.: TC-5548

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2022-05-07-05** **Date: 20-05-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-22
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of Test	:	17-05-22

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	15.0		
Strength	Aggregate Impact Value	21.0	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.38	Maximum 2%	IS:2386 Part III

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2022-05-07-05**	**Date: 24-05-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division	
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	23-05-22	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of Test	:	23-05-22	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	477	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.6	4.8
4	Average percentage	%	4.7	

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2022-05-07-05 **Date: 23-05-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-05-22
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of Test	:	20-05-22
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2022-05-07-05**	**Date: 23-05-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division	
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	20-05-22	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	20-05-22	

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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Lab ID : CP-RW-2022-05-07-05 Date: 26-05-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.8	62.2	53-71
2.36	88	266	56.5	43.5	42-58
1.18	29	295	62.6	37.4	34-48
0.6	11	306	65.0	35.0	26-38
0.3	46	352	74.7	25.3	18-28
0.15	45	397	84.3	15.7	12-20
0.075	55	452	96.0	4.0	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	55	452	95.8	4.2	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2022-05-07-05**	**Date: 16-05-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division	
Agency	:	Sri.R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	14-05-22	
Sample Type	:	Bitumen	
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)	
Date of Test	:	14-05-22	

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2022-05-07-05**	**Date: 26-05-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to Roads at Kamakshamma Layout in Chowdeshwari Ward No 02 of Yelahanka Sub Division	
Agency	:	Sri R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore - 560010	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/140/2021-22	
Sample Condition	:	Satisfactory	
Date of Receipt	:	25-05-22	
Type of Mix	:	Tack coat	
Date of Test	:	25-05-22	

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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